

New Palam Vihar, Sector 110, Dwarka Expressway, Gurugram, Haryana

HOLIDAY HOMEWORK

2025-26

Class: IX

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THE PARENTS

Dear Parents,

As our school holidays are now underway, your support and guidance are more important than ever in nurturing your child's academic and personal growth. We encourage you to motivate your child to make productive use of this break by revising concepts, exploring new interests, and diligently completing their holiday assignments.

Please assist in creating a positive study environment, fostering curiosity, and effectively managing their time, while refraining from doing the work for them. This period is a wonderful opportunity for your child to develop independence, creativity, and a sense of responsibility.

Your encouragement and positive reinforcement will inspire them to enjoy their holidays, learn effectively, and return refreshed and ready to face new academic challenges.

Thank you for your continued cooperation and support.

Instructions for the students:

- 1. Complete all holiday homework and projects as per the given instructions for your respective subjects.
- 2. Participate actively and independently in each task to develop selfdiscipline and confidence.
- 3. Use available resources creatively while completing assignments, incorporating critical thinking and originality.
- 4. Regularly review and revise the work done during April and May to reinforce learning.
- 5. Maintain a neat, organized, and presentable format for all submissions.
- 6. Seek guidance from teachers or parents only when necessary; the emphasis is on your independent effort.
- 7. Remember, your sincere effort during holidays will prepare you better for upcoming assessments and future endeavors.

Wishing you a productive and enjoyable holiday season!

Regards

TEAM ROIS

Please note the following:

- Summer vacations will commence from 1st June, 2025 till 30th June, 2025, both days inclusive.
- > The school will re-open on 1st July, 2025(Tuesday)
- > Schedule for the submission of HHW is as follows :

English	:	02/07/2025 (Wednesday)
Hindi	:	03/07/2025 (Thursday)
Maths	:	04/07/2025 (Friday)
Science	:	07/07/2025 (Monday)
S.Sc.	:	08/07/2025 (Tuesday)

- For AI and SANSKRIT (2nd week of July). Dates will be given in the classes only by the subject teachers.
- Summer HHW 5 marks will be added as an Activity marks in Term I Wishing you all a very fruitful and enjoyable vacations.



State: Andhra Pradesh



Andhra Pradesh, located in southeastern India, is known for its rich cultural heritage, historic temples, and beautiful beaches. It is famous for its diverse landscapes, including the picturesque Tirupati Temple and the scenic coastline along the Bay of Bengal. The state is also a major hub for agriculture and technology, contributing significantly to India's economy.

SUBJECTS	<u>TOPIC</u>	TYPES OF ACTIVITIES
English	Cultural Heritage	 Write a letter to your friend telling him about the rich cultural heritage of famous landmarks and attractions in Andhra Pradesh. Write a paragraph on the topic 'Buddhist history holds immense significance, the teachings, principles, and values propagated by Lord Budha', in the context of state Andhra Pradesh.
		Note: Do it in fair notebook
Hindi	फसलें, खान-पान	आंध्र प्रदेश के इतिहास , भूगोल , जलवायु , फस लें, खान-पान व रीति -रिवाज विषय पर चित्र सहित परियोजना कार्य तैयार कीजिए। (ए -4 साइज शीट पर) इन शीट्स को अपनी फोल्डर फाइल (Folder File) में व्यवस्थित रूप से लगाएँ।

	Population	1. Prepare a project on Andhra Pradesh in scrap book	
Maths	and Rainfall	and represent the following	
		points :	
		(i) Make a bar graph of rainfall of last 6 years.	
		(ii) Make a pie chart of district population and	
		different languages of Andhra	
		Pradesh.	
		2. Do 10 questions of the concept "Rationalisation"	
		numbers	
		$\mathbf{e} = \mathbf{a}^{\mathbf{p}} \mathbf{x} \mathbf{a}^{\mathbf{q}} = \mathbf{a}^{\mathbf{p}+\mathbf{q}}$	
		• $a^p \div a^q = a^{p \cdot q}$	
		• $(a^p)^q = a^{pq}$	
		4. Represent $\sqrt{5}$, $\sqrt{17}$, $\sqrt{26}$, $\sqrt{2.3}$ and $\sqrt{5.3}$ on number line.	
		5. Explain the concept " Zero of a Polynomial" with help	
		of 20 examples.	
		6. Do 10 questions of each of the following identity on	
		factorization.	
		• $A^2 + B^2 + C^2 + 2AB + 2BC + 2CA = (A + B + C)^2$	
		• $A^3 + B^3 = (A+B)(A^2 - AB + B^2)$	
		• $A^3 - B^3 = (A - B)(A^2 + AB + B^2)$	
		• $A^{+} + B^{+} + C^{-} - 3ABC = (A + B + C)(A + B + C - AB - BC - CA)$	
		• If $A + B + C = 0$ then $A^3 + B^3 + C^3 = 3ABC$	
		7. Revise the syllabus done in the class till now.	
	Agricultural	Prepare a Scrap Book by including the following parameters:	
Science	techniques	Cover page includes- project title, Students details, school	
	used in	and academic year.	
	Pradesh	Cortificate page	
	i rudesii.	Acknowledgement	
		Project Overvjew	
		 Content Pages (8 to 10 with relevant photographs) 	
		 Conclusion 	
		Bibliography	
		Not: Do the given worksheets of Physics, Chemistry and	
		Biology in fair notebooks.	
		PHYSICS:	
		Chapter 7- [Motion]	









d) Evaporation, solubility, diffusion, compression of
gases
2. Seema visited a Natural Gas Compressing Unit and
found that the gas can be liquefied under specific
conditions of temperature and pressure. Help her
identify the correct set of conditions:
a) Low temperature, low pressure
b) High temperature, low pressure
c) Low temperature, high pressure
d) High temperature, high pressure
3. The property to flow is unique to fluids. Which one of
the following statements is correct?
a) Only gases behave like fluids
b) Gases and solids behave like fluids
c) Gases and liquids behave like fluids
d) Only liquids are fluids
4. During summer, water kept in an earthen pot becomes
cool because of the phenomenon of:
a) Diffusion
b) Transpiration
c) Osmosis
d) Evaporation
5. A few substances are arranged in the increasing order
of 'forces of attraction' between their particles. Which
one of the following represents a correct
arrangement?
a) Water, air, wind
b) Air, sugar, oil
c) Oxygen, water, sugar
d) Salt, juice, air
6. On converting 25°C, 38°C, and 66°C to the Kelvin scale,
the correct sequence of temperatures will be:
a) 298 K, 311 K, and 339 K
b) 298 K, 300 K, and 338 K
c) 273 K, 278 K, and 543 K
d) 298 K, 310 K, and 338 K
7. Choose the correct statement from the following :
a) Conversion of solid into vapors without passing
through the liquid state is called vaporization.
b) Conversion of vapors into solid without passing
through the liquid state is called sublimation.
c) Conversion of vapors into solid without passing
through the liquid state is called freezing.
d) Conversion of solid into liquid is called sublimation.
h

8.	The boiling points of diethyl ether, acetone, and n-
	butyl alcohol are 35°C, 56°C, and 118°C respectively.
	Which one of the following correctly represents their
	boiling points in the Kelvin scale?
	а) 306 К, 329 К, 391 К
	b) 308 К, 329 К, 392 К
	с) 308 К, 329 К, 391 К
	d) 329 K. 392 K. 308 K
9.	Which condition out of the following will increase the
	evaporation of water?
	a) Increase in temperature of water
	b) Decrease in temperature of water
	c) Less exposed surface area of water
	d) Adding common salt to water
10	In which of the following conditions, the distance
10	hotwoon the molecules of hydrogen recursid
	increase?
	Increase?
	I) increasing pressure on hydrogen contained in a
	closed container
	II) Some hydrogen gas leaking out of the container
	III) Increasing the volume of the container of hydrogen
	gas
	iv) Adding more hydrogen gas to the container without
	increasing the volume of the container
	a) (i) and (iii)
	b) (i) and (iv)
	c) (ii) and (iii)
	d) (ii) and (iv)

b) At room temperature, the forces of attraction
between the particles of solid substances are
than those which exist in the gaseous state.

- 14. What happens when a gas is compressed? Explain in terms of particle movement and spacing.
- 15.Why does the temperature remain constant during the melting of ice even though heat is supplied continuously?

Section C – Long Answer Questions (4–5 marks each)

- 16.Explain the process of evaporation and the factors affecting it. How does evaporation cause cooling?
- 17.Describe an activity to show that particles of matter are continuously moving.
- 18.Discuss the effect of change of temperature and pressure on the state of matter.
- 19.Differentiate between the characteristics of solids, liquids, and gases based on shape, volume, compressibility, and fluidity.
- 20.Explain why ice at 0°C is more effective in cooling than water at 0°C.

BIOLOGY:

CHAPTER-5 CELL FUNDAMENTAL UNIT OF LIFE

Q1. Why do dry apricot placed in salt solution do not swell. While they do so when kept in water?

Q2. How Prokaryotic cell is different from eukaryotic cell?

Q3. Where do lipids and proteins constituting the cell membrane get synthesized?

Q4 How are chromatin, chromatid and chromosomes related to each other?

Q6. Which structure is known as little nucleus?

Q7. What is the chemical composition of cell wall in plants and fungi respectively?

Q8.Write down two functions of ER.

	Q9. Name two structures found in plant cell but not in animal cell.	
	Q10. Name two structures found in animal cell but not in plant cell.	
	Q11. The only organelle seen in prokaryotes.	
	Q12.Do you agree that "A cell is a building unit of an organism"? if yes, explain why?	
	Q13.Why does the skin of your finger shrink, when you wash clothes for a long time?	
	Q14.Why is endocytosis found in animals only?	
	Q15.Write difference between unicellular and multicellular.	
	Q16.Write differences between plant cell and animal cell.	
	Q17.Write difference between R.E.R and S.E.R.	
	Q18.Dry apricots are left in pure water and later transferred to sugar solution, What will happen to it?	
	Q19.What will happen to rheo leaves ,when boiled in water first and then a drop of sugar syrup is put on it ?	
	Q20 .Write a short note on golgi apparatus.	
An Overview Science	 Prepare a project file on Forest societies and Pastrolists groups in India, related to the history chapter with complete information and related pictures . <u>Must begin the project by including the following parameters (minimum sheets 25):</u> Front information (School name, academic year, Project title and roll no) Beautiful creative Cover page List of content with page number (index). Certificate Acknowledgement (giving credit to those who helped you in this project) Project overview (brief idea about the project) Content sheet (10 to 12 pages with relevant photographs with maps) Conclusion Bibliography (the book you read and the website you visited for the project) 	

		ROLL	TOPICS	
		NO.		
		1 to 6	Major rivers and their multipurpose projects	
		7 to 12	Major and popular food items	
		13 to 18	Different dance forms (Classicals and folk)	
		19 to 24	Famous Political Personalities	
		25 to 30	Cultural Diversities (Ethenic groups/Major Religion/Tourist Spots/ Major cities)	
		30 onward s	Iconic Personalities and movies of Telgu film Industry	
AI	Traffic and weather forecasting	 S 1. Write a short Essay or Speech on topic"How Communication Connects People Across Cultures – A Look at Andhra Pradesh" Highlight how communication can bridge gaps and celebrate diversity. 2. Find and describe 2 examples of AI technology used in Andhra Pradesh, like: AI in weather forecasting (e.g., predicting crop yield) AI in traffic systems 		
SANSKR IT	संस्कृत तथा ऐतिहासिक इमारते	१ आंध्र प्रदेश की संस्कृत तथा ऐतिहासिक इमारतों के चित्रों की एक संकलन - फाइल बनाइए । २ धातव: शब्द याद कीजिए । ३ पुल्लिंग , स्त्रीलिंग तथा नपुंसकलिंग के शब्द याद कीजिए । ४ चार्टपेपर को सुसज्जित करके श्रीमद् भगवद् गीता के दो श्लोकों की चित्र बनाना और उन्हें याद करना।		